ABSTRACT

To prevent an electrode improvable to measurement accuracy by using a novel self-assembled monolayer suppressing an influence of the interference substance in measuring an object to be measured, and a sensor using the same. The sensor has a modified electrode 12 and a counter electrode. The modified electrode 12 has a gold electrode 16 as an electrode base, a self-assembled monolayer 18 covering the gold electrode 16 and made of 10 carboxyalkanethiol expressed by a chemical structural formula of $HS(CH_2)_nCOOH$ (n = 5 to 9), and an enzyme 19 immobilized on the self-assembled monolayer 18. When measuring fructose, FDH may be used as the enzyme 19. The self-assembled monolayer 18 allows Co(phen)₃²⁺ as a 15 mediator to pass through selectivity when being formed of 7-carbxy-1-heptanethiol.